IN THE CLAIMS

Please amend the claims as follows.

For the Examiner's convenience, a list of all claims is included below.

1. (Currently amended) A method comprising:

calendaring a plurality of virtual connections for processing, each virtual connection calendared to a particular time period such that the virtual connections are not calendared to at least one time period;

storing a plurality of virtual connection addresses in a cache memory; and processing a virtual connection corresponding to one of the plurality of virtual connection addresses during one of the at least one time periods;

processing a calendared virtual connection; and

adding the address of the processed calendared virtual connection to the cache memory upon a determination that the address of the processed calendared virtual connection is not currently in the cache memory, the processed calendared virtual connection has more data to transmit, and a recipient can receive more data.

- 2. (Original) The method of claim 1, wherein the most recently processed calendared virtual connection is stored in the cache memory.
- 3. (Original) The method of claim 1, wherein virtual connections corresponding to the virtual connection addresses stored in the cache memory are processed in a round-robin fashion.

4 - 5 (Canceled)

- 6. (Currently amended) The method of claim 4-1, wherein the address of a processed calendared virtual connection meeting the evaluation criteria is stored in a first cache memory position.
- 7. (Currently amended) An apparatus comprising:

means for calendaring a plurality of virtual connections for processing, each virtual connection calendared to a particular time period such that the virtual connections are not calendared to at least one time period;

means for storing a plurality of virtual connection addresses in a cache memory; and means for processing a virtual connection corresponding to one of the plurality of virtual connection addresses during one of the at least one time periods;

means for processing a calendared virtual connection; and

means for adding the address of the processed calendared virtual connection

to the cache memory upon a determination that the address of the processed

calendared virtual connection is not currently in the cache memory, the processed

calendared virtual connection has more data to transmit, and a recipient can receive

more data.

8. (Original) The apparatus of claim 7, wherein the most recently processed calendared virtual connection is stored in the cache memory.

- 9. (Original) The apparatus of claim 7, wherein virtual connections corresponding to the virtual connection addresses stored in the cache memory are processed in a round-robin fashion.
- 10 11 (Canceled)
- 12. (Currently amended) The apparatus of claim 10, 7 wherein the address of a processed calendared virtual connection meeting the evaluation criteria is stored in a first cache memory position.
- 13. (Currently amended) A machine-readable medium that provides executable instructions, which when executed by a processor, cause said processor to perform a method comprising:

calendaring a plurality of virtual connections for processing, each virtual connection calendared to a particular time period such that the virtual connections are not calendared to at least one time period;

storing a plurality of virtual connection addresses in a cache memory; and processing a virtual connection corresponding to one of the plurality of virtual connection addresses during one of the at least one time periods;

processing a calendared virtual connection; and

adding the address of the processed calendared virtual connection to the cache memory upon a determination that the address of the processed calendared virtual connection is not currently in the cache memory, the processed calendared virtual connection has more data to transmit, and a recipient can receive more data.

- 14. (Original) The machine-readable medium of claim 13, wherein the most recently processed calendared virtual connection is stored in the cache memory.
- 15. (Original) The machine-readable medium of claim 13, wherein virtual connections corresponding to the virtual connection addresses stored in the cache memory are processed in a round-robin fashion.

16 – 17 (Canceled)

- 18. (Currently amended) The machine-readable medium of claim, <u>13</u> wherein the address of a processed calendared virtual connection meeting the evaluation criteria is stored in a first cache memory position.
- 19. (Currently amended) An apparatus comprising:

a virtual connection calendaring unit for calendaring a plurality of virtual connections for processing, each virtual connection calendared to a particular time period such that the virtual connections are not calendared to at least one time period;

a virtual connection address storage unit for storing a plurality of virtual connection addresses in a cache memory; and

a virtual connection processing unit to process a virtual connection corresponding to one
of the plurality of virtual connection addresses during one of the at least one time periods; and
a calendared virtual connection processing unit to process a calendared virtual connection

and add the address of the processed calendared virtual connection to the cache memory upon a determination that the address of the processed calendared virtual connection is not currently in

the cache memory, the processed calendared virtual connection has more data to transmit, and a recipient can receive more data.

- 20. (Original) The apparatus of claim 19, wherein the most recently processed calendared virtual connection is stored in the cache memory.
- 21. (Original) The apparatus of claim 12, wherein virtual connections corresponding to the virtual connection addresses stored in the cache memory are processed in a round-robin fashion.
- 22-23 (Canceled)
- 24. (Currently amended) The apparatus of claim 22, 19 wherein the address of a processed calendared virtual connection meeting the evaluation criteria is stored in a first cache memory position.